

The background is a vibrant yellow. It is decorated with several abstract geometric shapes in shades of blue, teal, and white. These include circles, semi-circles, and rounded rectangular shapes, some of which are layered or overlapping. The shapes are scattered across the page, creating a dynamic and modern aesthetic.

Appendix A12.2
Desk Study

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Appendix 12.2: Desk Study

1.1 Desk Study Results

Desktop records of protected, rare, or other notable flora and fauna species within the vicinity of the Proposed Scheme are listed below in Table 1.

Plant species which are legally protected under the Flora (Protection) Order, 2015 and / or are listed as Critically Endangered, Endangered or Vulnerable on Ireland Red List No. 10: Vascular Plants (Wyse Jackson et al., 2016) and Ireland Red List No. 8 Bryophytes (Lockhart et al., 2012) are listed.

In relation to amphibian, reptile, and mammal species those which are protected under the Wildlife Acts, the Habitats Directive and / or are listed as threatened (Vulnerable to Critically Endangered) on Ireland Red List No. 12: Terrestrial Mammals (Marnell et al., 2019); Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish (King et al., 2011).

In the case of bird species, only those species listed in Annex I of the Birds Directive or on the Birds of Conservation Concern in Ireland (BoCCI) Red List are included in the table below.

For invertebrate species, those which are listed as threatened (Vulnerable to Critically Endangered) on Ireland Red List No. 4 – Butterflies (Regan et al., 2010); Ireland Red List No.6: Damselflies & Dragonflies (Nelson et al., 2011); Ireland Red List No. 2 – Non-Marine Molluscs.(Byrne et al., 2009); Ireland Red List No. 1 – Water beetles (Foster et al., 2009); Ireland Red List No. 9: Macro-moths (Allen et al., 2016); Ireland Red List No. 7: Mayflies (Kelly-Quinn et al., 2012); Ireland Red List No. 13: Stoneflies (Feeley et al., 2020); and Regional Red List of Irish Bees (Fitzpatrick et al. 2006).

Desktop records of invasive plant species which are scheduled under articles 49 and 50 of the Birds and Habitats Regulations are considered as a potential threat in respect of biodiversity. S.I.477 species within the vicinity of the Proposed Scheme are listed in Table 2.

Table 1: Records of Protected, Red-listed or Notable Flora Recorded from the Desk Study in the Vicinity of the Study Area

Common Name / Scientific name	Legal Status	Red List Status	Source
Plants			
Betony <i>Betonica officinalis</i>	FPO	Near threatened	NBDC online database record
Bird's-foot <i>Ornithopus perpusillus</i>	n/a	Vulnerable	NBDC online database record
Blunt-fruited Pottia <i>Tortula modica</i>	n / a	Vulnerable	NBDC online database record
Ceruous Thread-moss <i>Bryum uliginosum</i>	n / a	Endangered	Dublin City Biodiversity Action Plan 2015 - 2020
Great Burnet <i>Sanguisorba officinalis</i>	FPO	Vulnerable	NBDC online database record
Green Figwort <i>Scrophularia umbrosa</i>	n/a	Endangered	NBDC online database record
Hairy Violet <i>Viola hirta</i>	FPO	Vulnerable	NBDC online database record, NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Hairy St John's-wort <i>Hypericum hirsutum</i>	FPO	Endangered	NBDC online database record
<i>Lamiastrum galeobdolon</i> subsp. <i>montanum</i>	n/a	Vulnerable	NBDC online database record
Lance-leaved Pottia <i>Tortula lanceola</i>	n / a	Critically endangered	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Lesser Centaury <i>Centaureum pulchellum</i>	FPO	Endangered	Dublin City Biodiversity Action Plan 2015 - 2020
Many-seasoned Thread-moss <i>Bryum intermedium</i>	n / a	Endangered	Dublin City Biodiversity Action Plan 2015 - 2020
Meadow Barley <i>Hordeum secalinum</i>	FPO	Vulnerable	NBDC online database record, NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Meadow Saxifrage <i>Saxifraga granulata</i>	FPO	Regionally extinct*	NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Nettle-leaved Bellflower <i>Campanula trachelium</i>	n/a	Endangered	NBDC online database record
Opposite-leaved Pondweed <i>Groenlandia densa</i>	FPO	Near threatened	NBDC online database record, NPWS Consultation 2021
Petalwort <i>Petalophyllum ralfsii</i>	HD_II, FPO (SI.356 Schedule C)	Least concern	Dublin City Biodiversity Action Plan 2015 - 2020
Purple Spurge <i>Euphorbia peplis</i>	n/a	Regionally extinct*	NBDC online database record
Shady Beard-moss <i>Didymodon umbrosus</i>	n / a	Vulnerable	NBDC online database record
Tall Aloe-moss <i>Aloina ambigua</i>	n / a	Endangered	NBDC online database record
Twisting Thread-moss <i>Bryum torquescens</i>	n / a	Vulnerable	NBDC online database record
Cernuous Thread-moss <i>Bryum uliginosum</i>	FPO		NBDC online database record
Many-seasoned Thread-moss <i>Bryum intermedium</i>	FPO	Endangered	NBDC online database record
Water-violet <i>Hottonia palustris</i>	n / a	Critically endangered	NBDC online database record
Wild Clary <i>Salvia verbenaca</i>	n/a	Vulnerable	NBDC online database record
<i>Cladonia portentosa</i>	HD_V	n/a	NBDC online database record
Holt Notchwort <i>Cladopodiella francisci</i>	n/a	Vulnerable	NBDC online database record
Warne's Thread-moss <i>Bryum warneum</i>	FPO	Endangered	Dublin City Biodiversity Action Plan 2015 – 2020
Mammals			
Brown Long-eared Bat <i>Plecotus auritus</i>	HD IV, WA	Least concern	NBDC online database record
Daubenton's Bat <i>Myotis daubentonii</i>	HD IV, WA	Least concern	NBDC online database record
Eurasian Badger <i>Meles</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Pygmy Shrew <i>Sorex minutus</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Red Squirrel <i>Sciurus vulgaris</i>	WA	Least concern	NBDC online database record
European Otter <i>Lutra</i>	HD II, HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Grey Seal <i>Halichoerus grypus</i>	HD II, HD V, WA	Least concern	NBDC online database record
Irish Hare <i>Lepus timidus subsp. hibernicus</i>	WA	Least concern	NBDC online database record
Irish Stoat <i>Mustela erminea subsp. hibernica</i>	WA	Least concern	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Lesser Noctule <i>Nyctalus leisleri</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Nathusius's Pipistrelle <i>Pipistrellus nathusii</i>	HD IV, WA	Least concern	NBDC online database record
Natterer's Bat <i>Myotis nattereri</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Pipistrelle <i>Pipistrellus sensu lato</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Pine Marten <i>Martes</i>	HD V, WA	Least concern	NBDC online database record
Soprano Pipistrelle <i>Pipistrellus pygmaeus</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
West European Hedgehog <i>Erinaceus europaeus</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Whiskered Bat <i>Myotis mystacinus</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Bottle-nosed Dolphin <i>Tursiops truncatus</i>	HD_II, HD_IV	Least concern	NBDC online database record
Common Porpoise <i>Phocoena</i>	HD_II, HD_V		NBDC online database record
Common Seal <i>Phoca vitulina</i>	HD_II, HD_V	Least concern	NBDC online database record
Fin Whale <i>Balaenoptera physalus</i>	HD IV, WA	Least concern	NBDC online database record
Pygmy Sperm Whale <i>Kogia breviceps</i>	HD IV, WA	Least concern	NBDC online database record
Sperm Whale <i>Physeter macrocephalus</i>	HD IV, WA	Least concern	NBDC online database record
Striped Dolphin <i>Stenella coeruleoalba</i>	HD IV, WA	Least concern	NBDC online database record
Birds			
Arctic Tern <i>Sterna paradisaea</i>	SCI, BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Atlantic Puffin <i>Fratercula arctica</i>	WA	Red	NBDC online database record
Barn Owl <i>Tyto alba</i>	WA	Red	NBDC online database record
Barn Swallow <i>Hirundo rustica</i>	WA	Amber	NBDC online database record
Barnacle Goose <i>Branta leucopsis</i>	SCI, BD I, WA	Amber	NBDC online database record
Bar-tailed Godwit <i>Limosa lapponica</i>	SCI, BD I, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Light-bellied Brent Goose <i>Branta bernicla subsp. hrota</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Black Guillemot <i>Cepphus grylle</i>	WA	Amber	NBDC online database record
Black-headed Gull <i>Chroicocephalus ridibundus</i>	WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Black-legged Kittiwake <i>Rissa tridactyla</i>	SCI, WA	Red	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Black-tailed Godwit <i>Limosa</i>	SCI, WA	Red	NBDC online database record
Black-throated Diver <i>Gavia arctica</i>	SCI, BD I, WA	Amber	NBDC online database record
Brent Goose <i>Branta bernicla</i>	WA	Amber	NBDC online database record
Common Coot <i>Fulica atra</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Common Eider <i>Somateria mollissima</i>	SCI, BD_II(II) BD_III(II)	Amber	NBDC online database record
Common Goldeneye <i>Bucephala clangula</i>	SCI, BD II(II), WA	Red	NBDC online database record
Common Grasshopper Warbler <i>Locustella naevia</i>	WA	Green	NBDC online database record
Common Greenshank <i>Tringa nebularia</i>	SCI, WA	Green	NBDC online database record
Common Guillemot <i>Uria aalge</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Common Kestrel <i>Falco tinnunculus</i>	WA	Red	NBDC online database record
Common Kingfisher <i>Alcedo atthis</i>	SCI, BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Common Linnet <i>Carduelis cannabina</i>	WA	Amber	NBDC online database record
Common Pochard <i>Aythya ferina</i>	SCI, BD II(I) BD III(II), WA	Red	NBDC online database record
Common Redshank <i>Tringa totanus</i>	SCI, WA	Red	NBDC online database record
Common Sandpiper <i>Actitis hypoleucos</i>	WA	Amber	NBDC online database record
Common Scoter <i>Melanitta nigra</i>	SCI, BD II(II) BD III(III), WA	Red	NBDC online database record
Common Shelduck <i>Tadorna</i>	SCI, WA	Amber	NBDC online database record
Common Snipe <i>Gallinago</i>	BD II(I) BD III(III), WA	Red	NBDC online database record
Common Starling <i>Sturnus vulgaris</i>	WA	Amber	NBDC online database record
Common Swift <i>Apus</i>	SCI, BDII(II) BD III(III), WA	Red	NBDC online database record
Common Tern <i>Sterna hirundo</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Corn Crake <i>Crex</i>	SCI, BD I, WA	Red	NBDC online database record
Dunlin <i>Calidris alpina</i>	SCI, BD I, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Curlew <i>Numenius arquata</i>	SCI, BD II(II), WA	Red	NBDC online database record
Eurasian Oystercatcher <i>Haematopus ostralegus</i>	SCI, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Teal <i>Anas crecca</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Eurasian Wigeon <i>Anas penelope</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Eurasian Woodcock <i>Scolopax rusticola</i>	BD II(I) BD III(III), WA	Red	NBDC online database record
European Shag <i>Phalacrocorax aristotelis</i>	SCI, BD I, WA	Amber	NBDC online database record
European Golden Plover <i>Pluvialis apricaria</i>	SCI, BD I BD II(II) BD III(III), WA	Red	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
European Greenfinch <i>Carduelis chloris</i>	WA	Amber	NBDC online database record
Eurasian Tree Sparrow <i>Passer montanus</i>	WA	Amber	NBDC online database record
European Turtle Dove <i>Streptopelia turtur</i>	WA	Red	NBDC online database record
Gadwall <i>Anas strepera</i>	SCI, BD II(I), WA	Amber	NBDC online database record
Goosander <i>Mergus merganser</i>	BD_II(II)), WA	Amber	NBDC online database record
Great Northern Diver <i>Gavia immer</i>	SCI, BD I, WA	Amber	NBDC online database record
Grey Heron <i>Ardea cinerea</i>	SCI, WA	Green	NBDC online database record
Grey Plover <i>Pluvialis squatarola</i>	SCI, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Herring Gull <i>Larus argentatus</i>	SCI, WA	Amber	NBDC online database record
Northern Shoveler <i>Anas clypeata</i>	SCI, BD II(I) BD III(III), WA	Red	NBDC online database record
Ruddy Turnstone <i>Arenaria interpres</i>	SCI, WA	Green	NBDC online database record
Sanderling <i>Calidris alba</i>	SCI, WA	Green	NBDC online database record
Great Black-backed Gull <i>Larus marinus</i>	WA	Amber	NBDC online database record
Great Cormorant <i>Phalacrocorax carbo</i>	SCI, WA	Amber	NBDC online database record
Great Crested Grebe <i>Podiceps cristatus</i>	SCI, WA	Amber	NBDC online database record
Greater Scaup <i>Aythya marila</i>	SCI, BD II(II) BD III(III), WA	Red	NBDC online database record
Grey Wagtail <i>Motacilla cinerea</i>	WA	Amber	NBDC online database record
Hen Harrier <i>Circus cyaneus</i>	SCI, BD I, WA	Amber	NBDC online database record
House Martin <i>Delichon urbicum</i>	WA	Amber	NBDC online database record
House Sparrow <i>Passer domesticus</i>	WA	Amber	NBDC online database record
Kentish Plover <i>Charadrius alexandrinus</i>	BD I, WA	n / a	NBDC online database record
Lesser Black-backed Gull <i>Larus fuscus</i>	SCI, WA	Amber	NBDC online database record
Little Egret <i>Egretta garzetta</i>	BD I, WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Little Grebe <i>Tachybaptus ruficollis</i>	SCI, WA	Green	NBDC online database record
Little Tern <i>Sternula albifrons</i>	BD I, WA	Amber	NBDC online database record
Little Gull <i>Larus minutus</i>	WA	Amber	NBDC online database record
Long-tailed Duck <i>Clangula hyemalis</i>	BD II(II)	Red	NBDC online database record
Mallard <i>Anas platyrhynchos</i>	SCI, BD II(I) BD III(I), WA	Green	NBDC online database record
Manx Shearwater <i>Puffinus</i>	SCI, BD I, WA	Amber	NBDC online database record
Meadow Pipit <i>Anthus pratensis</i>	WA	Red	NBDC online database record
Mediterranean Gull <i>Larus melanocephalus</i>	BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Merlin <i>Falco columbarius</i>	SCI, BD I	Amber	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Mew Gull <i>Larus canus</i>	SCI, WA	Amber	NBDC online database record
Mute Swan <i>Cygnus olor</i>	WA	Amber	NBDC online database record
Northern Gannet <i>Morus bassanus</i>	SCI, WA	Amber	NBDC online database record
Northern Pintail <i>Anas acuta</i>	SCI, BD_II(I) BD_III(II), WA	Red	NBDC online database record
Northern Lapwing <i>Vanellus vanellus</i>	SCI, BD II(II), WA	Red	NBDC online database record
Northern Wheatear <i>Oenanthe oenanthe</i>	WA	Amber	NBDC online database record
Peregrine Falcon <i>Falco peregrinus</i>	SCI, BD I, WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Purple Sandpiper <i>Calidris maritima</i>	SCI, WA	Green	NBDC online database record
Red Knot <i>Calidris canutus</i>	SCI, WA	Red	NBDC online database record
Red-breasted Merganser <i>Mergus serrator</i>	SCI, BD II(II), WA	Amber	NBDC online database record
Red-footed Falcon <i>Falco vespertinus</i>	BD I, WA	n / a	NBDC online database record
Red Kite <i>Milvus milvus</i>	BD I, WA	Amber	NBDC online database record
Red-breasted Merganser <i>Mergus serrator</i>	SCI, BD_II(II)	Amber	NBDC online database record
Red-throated Diver <i>Gavia stellata</i>	SCI, BD I, WA	Amber	NBDC online database record
Redwing <i>Turdus iliacus</i>	WA	Red	NBDC online database record
Ringed Plover <i>Charadrius hiaticula</i>	SCI, WA	Amber	NBDC online database record
Rock Pigeon <i>Columba livia</i>	WA	Green	NBDC online database record
Roseate Tern <i>Sterna dougallii</i>	SCI, BD I, WA	Amber	NBDC online database record
Sand Martin <i>Riparia riparia</i>	WA	Amber	NBDC online database record
Short-eared Owl <i>Asio flammeus</i>	BD I	Amber	NBDC online database record
Sky Lark <i>Alauda arvensis</i>	WA	Amber	NBDC online database record
Spotted Crake <i>Porzana porzana</i>	BD I, WA	Amber	NBDC online database record
Spotted Flycatcher <i>Muscicapa striata</i>	BD I, WA	Amber	NBDC online database record
Stock Pigeon <i>Columba oenas</i>	WA	Red	NBDC online database record
Tufted Duck <i>Aythya fuligula</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Twite <i>Carduelis flavirostris</i>	WA	Red	NBDC online database record
Water Rail <i>Rallus aquaticus</i>	WA	Amber	NBDC online database record
Wood Lark <i>Lullula arborea</i>	BD I, WA	n / a	NBDC online database record
Whooper Swan <i>Cygnus cygnus</i>	SCI, BD I, WA	Amber	NBDC online database record
Willow Warbler <i>Phylloscopus trochilus</i>	WA	Amber	NBDC online database record
Yellowhammer <i>Emberiza citrinella</i>		Red	NBDC online database record
Reptile			
Common Lizard <i>Zootoca vivipara</i>	WA	n / a	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Amphibians			

Common Name / Scientific name	Legal Status	Red List Status	Source
Common Frog <i>Rana temporaria</i>	HD II	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Smooth Newt <i>Lissotriton vulgaris</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Fish			
European eel <i>Anguilla anguilla</i>	OSPAR, Fisheries Acts	Critically endangered	NBDC online database record
Brown / sea trout <i>Salmo trutta L.</i>	Fisheries Acts and fishing bylaws	Least Concern	IFI Consultation (2020), Dublin City Biodiversity Action Plan 2015 - 2020
River lamprey <i>Lampetra fluviatilis</i>	HD II, HD V, OSPAR, Fisheries Acts	Least Concern	Kelly et al., (2012), Matson et al., (2018), IFI Consultation (2020)
Brook lamprey <i>Lampetra planeri</i>	HD II, Fisheries Acts	Least Concern	IFI Consultation (2020), Dublin City Biodiversity Action Plan 2015 - 2020
Sea lamprey <i>Petromyzon marinus</i>	HD II, Fisheries Acts	Near threatened	Dublin City Biodiversity Action Plan 2015 - 2020
Bream <i>Abramis brama</i>	Fisheries Acts and fishing bylaws	n / a	Dublin City Biodiversity Action Plan 2015 – 2020
Atlantic salmon <i>Salmo salar</i>	Fisheries Acts and fishing bylaws	Vulnerable	Kelly et al., (2012), IFI Consultation (2020)
Invertebrates			
Blind Snail <i>Cecilioides Cecilioides acicula</i>	n / a	Vulnerable	NBDC online database record
Brown Snail <i>Zenobiella subrufescens</i>	n / a	Vulnerable	NBDC online database record
Common Shelled Slug <i>Testacella haliotidea</i>	n / a	Vulnerable	NBDC online database record
Desmoulin's Whorl Snail <i>Vertigo Vertigo moulinsiana</i>	HD II	Endangered	NBDC online database record
Duck Mussel <i>Anodonta Anodonta anatina</i>	n / a	Vulnerable	NBDC online database record
Ear Pond Snail <i>Radix auricularia</i>	n / a	Vulnerable	NBDC online database record
English Chrysalis Snail <i>Leiostryla anglica</i>	n / a	Vulnerable	NBDC online database record
Freshwater White-clawed Crayfish <i>Austropotamobius pallipes</i>	HD II, HD V	n / a	NBDC online database record
Glutinous Snail <i>Myxas glutinosa</i>	n / a	Endangered	NBDC online database record
Heath Snail <i>Helicella itala</i>	n / a	Vulnerable	NBDC online database record
Lake Orb Mussel <i>Musculium lacustre</i>	n / a	Vulnerable	NBDC online database record
Lesser Bulin <i>Merdigera obscura</i>	n / a	Endangered	NBDC online database record
Marsh Whorl Snail <i>Vertigo antivertigo</i>	n / a	Vulnerable	NBDC online database record
Mauge's Shelled Slug <i>Testacella maugei</i>	n / a	Near threatened	NBDC online database record
Moss Bladder Snail <i>Aplexa hypnorum</i>	n / a	Vulnerable	NBDC online database record
Moss Chrysalis Snail <i>Pupilla muscorum</i>	n / a	Endangered	NBDC online database record
<i>Pisidium pseudosphaerium</i>	n / a	Endangered	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Plated Snail <i>Spermodea lamellata</i>	n / a	Endangered	NBDC online database record
Point Snail <i>Acricula fusca</i>	n / a	Vulnerable	NBDC online database record
Smooth Grass Snail <i>Vallonia pulchella</i>	n / a	Vulnerable	NBDC online database record
Smooth Ramshorn <i>Gyraulus laevis</i>	n / a	Endangered	NBDC online database record
Swan Mussel <i>Anodonta cygnea</i>	n / a	Vulnerable	NBDC online database record
Tree Snail <i>Balea perversa</i>	n / a	Vulnerable	NBDC online database record
<i>Andrena praecox</i>	n / a	Vulnerable	NBDC online database record
<i>Andrena Oreomelissa coitana</i>	n / a	Endangered	NBDC online database record
<i>Andrena Cnemidandrena denticulata</i>	n / a	Vulnerable	NBDC online database record
<i>Andrena Cnemidandrena fuscipes</i>	n / a	Vulnerable	NBDC online database record
<i>Andrena Melandrena nigroaenea</i>	n / a	Vulnerable	NBDC online database record
<i>Andrena Micrandrena semilaevis</i>	n / a	Vulnerable	NBDC online database record
<i>Bagous alismatis</i>	n / a	Critically endangered	NBDC online database record
Barbut's Cuckoo Bee <i>Bombus barbutellus</i>	n / a	Endangered	NBDC online database record
<i>Coelioxys elongata</i>	n / a	Endangered	NBDC online database record
Dark Green Fritillary <i>Argynnis aglaja</i>	n / a	Vulnerable	NBDC online database record
<i>Enicocerus exsculptus</i>	n / a	Endangered	NBDC online database record
<i>Ephemerella notata</i>	n / a	Endangered	NBDC online database record
Feathered Gothic <i>Tholera decimalis</i>	n / a	Critically endangered	NBDC online database record
Field Cuckoo Bee <i>Bombus campestris</i>	n / a	Vulnerable	NBDC online database record
Gooden's Nomad Bee <i>Nomada goodeniana</i>	n / a	Endangered	NBDC online database record
Great Yellow Bumble Bee <i>Bombus distinguendus</i>	n / a	Endangered	NBDC online database record
Hill Cuckoo Bee <i>Bombus Psithyrus rupestris</i>	n / a	Endangered	NBDC online database record
<i>Hydrocyphon deflexicollis</i>	n / a	Endangered	NBDC online database record
<i>Hylaeus brevicornis</i>	n / a	Endangered	NBDC online database record
<i>Labiobaetis atrebatinus</i>	n / a	Endangered	NBDC online database record
<i>Limnebius nitidus</i>	n / a	Endangered	NBDC online database record
Marsh Fritillary <i>Euphydryas aurinia</i>	HD II	Vulnerable	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Small Blue <i>Cupido minimus</i>	n / a	Endangered	NBDC online database record
Wall <i>Lasiommata megera</i>	n / a	Endangered	NBDC online database record
Narrow-bordered Five-spot Burnet <i>Zygaena lonicerae</i>	n / a	Vulnerable	NBDC online database record
Gooden's Nomad Bee <i>Nomada goodeniana</i>	n / a	Endangered	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Neat Mining Bee <i>Lasioglossum nitidiusculum</i>	n / a	Vulnerable	NBDC online database record
<i>Nomada obtusifrons</i>	n / a	Endangered	NBDC online database record
<i>Nomada striata</i>	n / a	Endangered	NBDC online database record
<i>Ochthebius bicolon</i>	n / a	Vulnerable	NBDC online database record
<i>Procloeon bifidum</i>	n / a	Vulnerable	NBDC online database record
Protonemura praecox	n / a	Critically endangered	NBDC online database record
Red-tailed Carder Bee <i>Bombus ruderarius</i>	n / a	Vulnerable	NBDC online database record
<i>Rhithrogena germanica</i>	n / a	Vulnerable	NBDC online database record
Scarce Blue-tailed Damsel fly <i>Ischnura pumilio</i>	n / a	Vulnerable	NBDC online database record
Small Blue <i>Cupido minimus</i>	n / a	Endangered	NBDC online database record
<i>Sphecodes hyalinatus</i>	n / a	Vulnerable	NBDC online database record
Trimmer's Mining Bee <i>Andrena trimmerana</i>	n / a	Critically endangered	NBDC online database record

* refers to species considered regional extinct in the relevant Red list documents, which have been rediscovered since its publication. I have included a descriptor for this at the tables end.

Table 2 Non-native IAPS species listed under S.I 477 of the Birds and Habitats Regulations 2011

Common Name / Scientific name	Legal Status	Source
Tree-of-heaven <i>Ailanthus altissima</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Indian Balsam <i>Impatiens glandulifera</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Water Fern <i>Azolla filiculoides</i>	Third schedule of S.I. 477	NBDC online database record
Brazilian Giant-rhubarb <i>Gunnera manicata</i>	Third schedule of S.I. 477	NBDC online database record
Canadian Waterweed <i>Elodea canadensis</i>	Delisted as S.I. 477	NBDC online database record
Brazilian Giant-rhubarb <i>Gunnera manicata</i>	Third schedule of S.I. 477	NBDC online database record
Giant Knotweed <i>Reynoutria sachalinensis</i>	Third schedule of S.I. 477	NBDC online database record
Japanese Knotweed <i>Reynoutria japonica</i>	Third schedule of S.I. 477	NBDC online database record
New Zealand Pigmyweed <i>Crassula helmsii</i>	Third schedule of S.I. 477	NBDC online database record
Rhododendron <i>ponticum</i>	Third schedule of S.I. 477	NBDC online database record
Sea-buckthorn <i>Hippophae rhamnoides</i>	Third schedule of S.I. 477	NBDC online database record
Spanish Bluebell <i>Hyacinthoides hispanica</i>	Third schedule of S.I. 477	NBDC online database record
Three-cornered Garlic <i>Allium triquetrum</i>	Third schedule of S.I. 477	NBDC online database record
Common Cord-grass <i>Spartina anglica</i>	Third schedule of S.I. 477	NBDC online database record
Giant-rhubarb <i>Gunnera tinctoria</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
American Skunk-cabbage <i>Lysichiton americanus</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Nuttall's Waterweed <i>Elodea nuttallii</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Giant Hogweed <i>Heracleum mantegazzianum</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Parrot's-feather <i>Myriophyllum aquaticum</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Curly Waterweed <i>Lagarosiphon major</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record

S.I. 477 = Third Schedule of S.I. No. 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011, Species of Union concern = Regulation (EU) No 1143 / 2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and

management of the introduction and spread of invasive alien species, and Commission Implementing Regulation (EU) 2017/1263 updating the list of invasive alien species of Union concern established by Implementing Regulation (EU) 2016/1141 pursuant to Regulation (EU) No 1143/2014 of the European Parliament and of the Council.

HDII / IV / V = Habitats Directive Annexes II/IV/V; FPO = Flora (Protection) Order, 2015; WA = Wildlife Acts.

HD II / IV / V = Habitats Directive Annexes II/IV/V; BD I / II / III = Birds Directive Annex I / II / III; OSPAR = Convention for the protection of the marine environment of the North-east Atlantic 1992; * = species considered regional extinct in their respective Red list documents, which have since been rediscovered.

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